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4-21-80

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HEART VALVE PROSTHESIS

ABSTRACT OF THE DISCLOSURE

Double-leaflet heart valves having improved flow through the orifice defined by an annular valve body include a pair of leaflets which may be arcuate or flat in cross section. Guides protrude oppositely from the leaflets and are received in complementary depressions in the interior wall surface of a pair of standards which extend downstream from the annular valve body at generally diametrically opposite locations. The depressions are preferably elongated so that, as the leaflets pivot between the open and closed positions, the guides move from one end of the elongated depressions to the other. Eccentric pivot axes provide for quick response of the leaflets, and the location of the depressions in the standards moves the leaflets out of the annular valve body, reducing resistance to the free flow of blood therethrough.

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